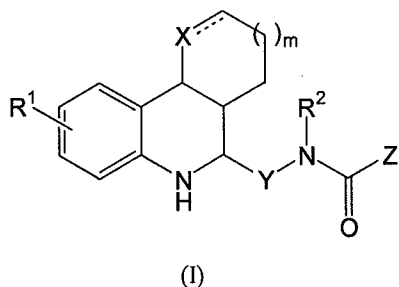


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A tetrahydroquinoline derivative represented by the following formula (I) or pharmacologically acceptable salts thereof:



wherein R^1 represents a ~~nitro group or a cyano group~~;

X represents CH ~~or~~ Θ , provided that when X is CH, the dashed line represents a double bond;

m represents 0 ~~or~~ 1;

Y represents ~~an alkylene group having 1—5 carbon atoms which may be substituted by a substituent selected from the group consisting of an alkyl group having 1—5 carbon atoms and a cycloalkyl group having 3—7 carbon atoms~~ $-C(CH_3)_2-CH_2-$;

R^2 represents a hydrogen atom, ~~an alkyl group having 1—5 carbon atoms, a cycloalkyl group having 3—7 carbon atoms or an aralkyl group having 7—9 carbon atoms~~;

Z represents ~~B—O—Q~~

[wherein B represents ~~an alkylene group having 1—5 carbon atoms which may be substituted by a substituent selected from the group consisting of an alkyl group having 1—5~~

~~carbon atoms and a cycloalkyl group having 3 - 7 carbon atoms; Q is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms or a cycloalkyl group having 3 - 7 carbon atoms which may be substituted by a substituent selected from the group consisting of a halogen atom, a hydroxyl group, a cyano group and an alkoxy group having 1 - 5 carbon atoms, or an aryl group, a heteroaryl group or an aralkyl group having 7 - 9 carbon atoms which may have a substituent R³,~~

Z represents a heteroaryl group which may be substituted by 1 - 3 independent R¹¹'s, wherein the R¹¹'s independently have the same meaning as R³;

R³ represents an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a halogen atom, an aryl group, a heteroaryl group, a nitro group, a cyano group, -A-R⁴ {wherein A represents -CO-, -CO₂-, -COS-, -CONR⁵-, -O-, -OCO-, -OSO₂-, -S-, SCO-, -SO-, -SO₂-, -NR⁵-, -NR⁵CO-, -NR⁵SO₂-, -NR⁵CONH-, NR⁵CSNH- or -NR⁵COO- (wherein R⁵ represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms, a cycloalkyl group having 3 - 7 carbon atoms or an aralkyl group having 7 - 9 carbon atoms),

R⁴ is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a cycloalkyl group having 3 - 7 carbon atoms, a halogen atom, or an aryl group or a heteroaryl group which may be substituted by R⁶ (wherein R⁶ represents an alkyl group having 1 - 5 carbon atoms, an alkoxy group having 1 - 5 carbon atoms or a halogen atom), provided that when A is NR⁵- or -CONR⁵-, R⁴ and R⁵ may, together with the nitrogen atom to which they are bonded, form pyrrolidine or piperidine)}, or -A'-(CH₂)_n-R^{4'} {wherein A' represents a single bond, -CO-, -CO₂-, -COS-, -CONR^{5'}-, -O-, -OCO-, -OSO₂-, -S-, SCO-, -SO-, -SO₂-, -NR^{5'}-, -NR^{5'}CO-, -NR^{5'}SO₂-, -NR^{5'}CONH-, NR^{5'}CSNH- or -NR^{5'}COO- (wherein R^{5'} represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms, a cycloalkyl group having 3 - 7 carbon atoms or an aralkyl group having 7 - 9 carbon atoms), n represents an integer of 1 or

2, $R^{4'}$ represents a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a cycloalkyl group having 3 - 7 carbon atoms, a halogen atom, a hydroxyl group, a cyano group, an alkoxy group having 1 - 5 carbon atoms, an alkylacyloxy group having 2 - 5 carbon atoms, an alkoxycarbonyl group having 2 - 5 carbon atoms, an aryl group or a heteroaryl group which may be substituted by $R^{6'}$ (wherein $R^{6'}$ represents an alkyl group having 1 - 5 carbon atoms, an alkoxy group having 1 - 5 carbon atoms or a halogen atom), or $-NR^{7'}R^{8'}$ (wherein $R^{7'}$ and $R^{8'}$ each independently have the same meaning as the aforementioned $R^{5'}$, provided that $R^{7'}$ and $R^{8'}$ may, together with the nitrogen atom to which they are bonded, form pyrrolidine or piperidine), provided that when A' is $-NR^{5'}$ - or $-CONR^{5'}$ -, $R^{4'}$ and $R^{5'}$ may, together with the $-N-(CH_2)_n$ - to which they are bonded, form pyrrolidine or piperidine}], or alternatively Z represents $-(CH_2)_r-W$

~~[wherein r represents an integer of 0 - 2, W represents a phenyl group having substituent R^9 at p position, a naphthyl group which may have substituent R^{10} or a heteroaryl group which may be substituted by 1 - 3 independent R^{11} 's (wherein R^9 , R^{10} and R^{11} independently have the same meaning as the aforementioned R^3)].~~

2. (canceled).

3. (currently amended): The tetrahydroquinoline derivative according to claim 1, where Y is $CH(CH_3)-CH_2$ - or $C(CH_3)_2-CH_2$ -, m is 0, R^2 is a hydrogen atom and Z is W [wherein W is a heteroaryl group which may be substituted by 1 - 3 independent R^{11} 's or a phenyl group having substituent R^9 at p position {wherein R^{11} 's and R^9 independently represent a halogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine

atom, a nitro group, a cyano group, $-A-R^4$ (wherein A is $-CO-$, $-CO_2-$, $-O-$, $-NHCO-$ or $-NHCONH-$, and R^4 is a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom) or $-A'-(CH_2)_n-R^{4'}$ (wherein A' is $-CO-$, $-CO_2-$, $-O-$, $-NHCO-$ or $-NHCONH-$, $R^{4'}$ is a hydrogen atom, an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom, a hydroxyl group, a halogen atom or an alkoxy group having 1 - 5 carbon atoms, and n is an integer of 1 or 2)) or pharmacologically acceptable salts thereof.

4. (currently amended): The tetrahydroquinoline derivative according to claim 3, where Z is ~~a phenyl group having substituent R^9 at p-position or~~ a heteroaryl group having substituent R^{11} {wherein ~~R^9 and R^{11}~~ independently represents a halogen atom, $-O-R^4$ or $-NHCO-R^4$ (wherein R^4 represents a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom))} or pharmacologically acceptable salts thereof.

5. (currently amended): The tetrahydroquinoline derivative according to claim 3, where Z is ~~a phenyl group having substituent R^9 at p-position or~~ a heteroaryl group having substituent R^{11} {wherein ~~R^9 and R^{11}~~ represents $-NHCO-R^4$ (wherein R^4 represents a hydrogen atom or an alkyl group having 1 - 5 carbon atoms which may be substituted by a fluorine atom))} or pharmacologically acceptable salts thereof.

6. (currently amended): The tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 and a pharmaceutically acceptable carrier or excipient.

7. - 10. (canceled).

11. (previously presented): A method of treating muscle wasting or osteoporosis, which comprises administering to a mammal in need of such treatment, the tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 in an amount effective to treat said diseases.

12. (previously presented): A method of treating male hypogonadism, , which comprises administering to a mammal in need of such treatment, the tetrahydroquinoline derivative or pharmacologically acceptable salts thereof according to any one of claims 1 and 3 to 5 in an amount effective to treat said disease.

13. (canceled).